METHOD AND APPARATUS FOR PROVIDING MOBILE INTER-MESH COMMUNICATION POINTS IN A MULTI-LEVEL WIRELESS MESH NETWORK

ABSTRACT

A mobile backhaul inter-mesh communication point forms an interface between a wireless mesh network on a first level and a wireless mesh network on a second, higher bandwidth, level. The two wireless networks are differentiated, e.g., by causing the mesh networks to be formed using different spectra, protocols or coding, or antennae. The mobile intra-mesh communication point functions as an access point in the lower level mesh network and as a relay point in the upper level mesh network. Utilizing mobile inter-mesh communication points facilitates deployment of wireless network access points while enabling the location of access points to follow the concentration of network users. Mobile inter-mesh communication points may be deployed in personal vehicles such as cars, trucks, and motorcycles, public transportation vehicles such as busses, trains, and aircraft, emergency vehicles such as fire trucks and ambulances, and many other types of vehicles.